

Title (en)  
FLUX-CORED WIRE FOR ARC WELDING OF DUPLEX STAINLESS STEEL

Title (de)  
FLUSSKERNDRAHT ZUM LICHTBOGENSCHWEISSEN VON DUPLEXEDELSTAHL

Title (fr)  
FIL À FLUX INCORPORÉ POUR SOUDAGE À L'ARC D'ACIER INOXYDABLE DUPLEX

Publication  
**EP 3208030 B1 20180926 (EN)**

Application  
**EP 17000242 A 20170215**

Priority  
JP 2016031481 A 20160222

Abstract (en)  
[origin: EP3208030A1] A flux-cored wire for arc welding of a duplex stainless steel includes a stainless-steel sheath filled with a flux and contains, with respect to the total mass of the wire, predetermined amounts of Cr, Ni, Mo, N, Mn, and Si, in which letting a Ti alloy content in terms of Ti be [Ti] and letting an Al alloy content in terms of Al be [Al], [Ti] and [Al] are predetermined values, and in which parameter A expressed as  $A = [Ti] + 2 \times [Al]$  satisfies a predetermined value, and the balance is composed of Fe, a slag-forming component, and incidental impurities.

IPC 8 full level  
**B23K 9/00** (2006.01); **B23K 35/02** (2006.01); **B23K 35/30** (2006.01); **B23K 35/36** (2006.01); **B23K 35/362** (2006.01); **B23K 35/368** (2006.01); **C22C 38/40** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01); **C22C 38/58** (2006.01)

CPC (source: CN EP KR US)  
**B23K 9/00** (2013.01 - US); **B23K 35/0266** (2013.01 - CN EP KR US); **B23K 35/3053** (2013.01 - KR); **B23K 35/308** (2013.01 - EP US); **B23K 35/3086** (2013.01 - CN EP US); **B23K 35/3602** (2013.01 - CN EP KR US); **B23K 35/3605** (2013.01 - EP US); **B23K 35/3607** (2013.01 - EP KR US); **B23K 35/3608** (2013.01 - EP KR US); **B23K 35/362** (2013.01 - EP US); **B23K 35/368** (2013.01 - CN EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/50** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US)

Cited by  
CN109967918A; EP3715042A4

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3208030 A1 20170823**; **EP 3208030 B1 20180926**; CN 107097016 A 20170829; CN 107097016 B 20190705; JP 2017148821 A 20170831; KR 101937553 B1 20190110; KR 20170098697 A 20170830; US 10870178 B2 20201222; US 2017239758 A1 20170824

DOCDB simple family (application)  
**EP 17000242 A 20170215**; CN 201710066683 A 20170207; JP 2016031481 A 20160222; KR 20170019237 A 20170213; US 201715398357 A 20170104